

NOTE: 1. THIS DIAGRAM DOES NOT PHYSICALLY LOCATE THE VALUE (3400) AND RELAY (3200) BOXES.
2. THE LAUNCHER AND SQUARE FRAME ARE NOT SHOWN.

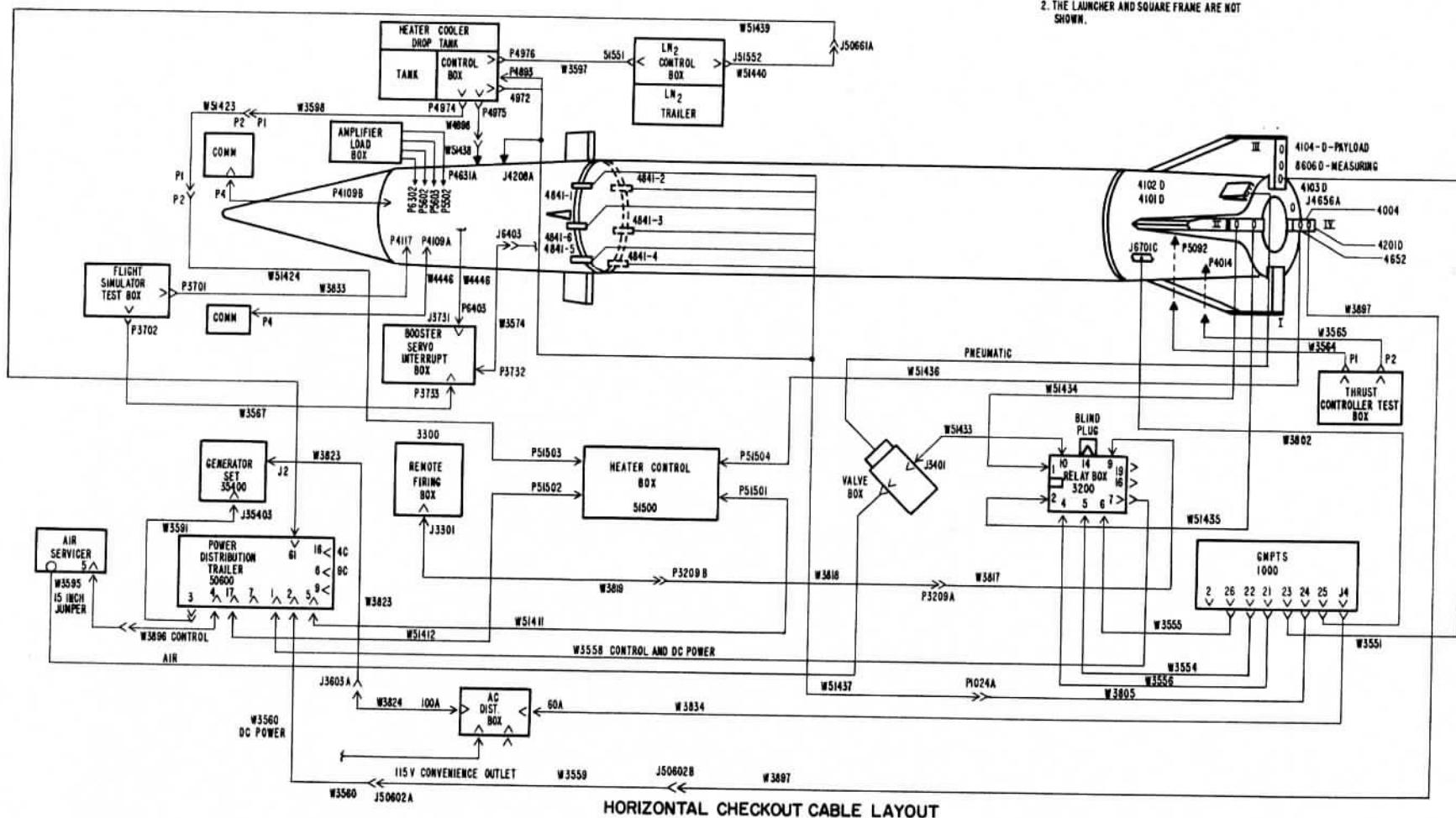


Figure 1.

Table II

Communication console	Lateral and program console
Test station	
Firing section	
ACTIVATE THE COMMUNICATIONS SYSTEMS	SEQUENCE RECORDER OPERATION CHECK
<ol style="list-style-type: none"> 1. Turn Power Selector switch to Truck Battery position. 2. Connect 2 headsets below Propulsion Control Panel. 3. Connect 2 headsets below Range Control Panel. 4. Have personnel at all stations check in as soon as possible to check Communication loop. 	<p>THIS CHECK CAN BE STARTED AS SOON AS THE TEST STATION HAS 60 CPS VOLTAGE.</p> <p>REFER TO FRONT OF RECORDER PANEL FOR INSTRUCTIONS ON INSTALLING CHART PAPER.</p> <ol style="list-style-type: none"> 1. Open recorder door and insure that the following switches are in their normal position for operation. <ol style="list-style-type: none"> a. Toggle switch on left side of chart drive On (up). b. Minutes Speed switch to the minute position (down).
STATIONS	ON NEW EQUIPMENT, THE TOGGLE SWITCH ON BACK OF RECORDER PANEL SHOULD BE CHECKED TO INSURE THAT IT IS ON AND LEFT ON FOR ALL TESTS WHERE THE RECORDER IS USED. IF THE TOGGLE SWITCH IS IN THE OFF POSITION, HIGH SPEED WILL NOT PICK UP FOR SIMULATED FLIGHT.
<ol style="list-style-type: none"> a. Propulsion Console. b. Stabilizer Console. c. Range Console. d. Lateral Console. e. Relay Box and Heater Control Box. f. Instrument Compartment. g. Instrument Compartment (If phone was installed). h. Remote Firing Panel. i. Power Distribution Station. j. Air Servicer. k. Battery Servicing Shop. l. LN2 Control Box. 	<p>ALL STEPS AND INDICATIONS ARE ON THE SEQUENCE RECORDER PANEL.</p> <ol style="list-style-type: none"> 2. Turn Recorder switch On. Light over chart paper comes on. 3. Turn Chart Drive switch On. <ol style="list-style-type: none"> a. Chart paper moves slowly. b. Chart Drive light On. 4. Turn High Speed Drive On and then Off. <ol style="list-style-type: none"> a. Chart paper moves rapidly and then slowly. b. High Speed Drive light On and then Off. 5. Turn High Speed Drive to Remote position. 6. Move Minute Speed switch to the Hour position (up). Chart paper moves very slowly. 7. Mark time and date on chart paper.
END OF OPERATION	
CONNECT AND TEST PUBLIC ADDRESS SYSTEM	
<ol style="list-style-type: none"> 1. Use communication system to request AC power from the AC generator. 2. Turn auxiliary power switch On (CC). 3. Assemble speakers. 4. Install speakers on roof of Test Station. 5. Connect speakers to jacks. 	

Table II—Continued

Test station	
Firing section	
Communication console	Lateral and program console
ACTIVATE THE COMMUNICATIONS SYSTEMS—Continued	SEQUENCE RECORDER OPERATION CHECK—Continued
6. Turn public address system power switch On (CC). Red Indicator lamp On. 7. Turn volume control to 6. 8. Press microphone button and speak into microphone. Voice is loud and clear.	LEAVE SEQUENCE RECORDER IN ITS PRESENT CONDITION IF TESTS ARE TO BE CONTINUED. TO TURN RECORDER OFF, FOLLOW REVERSE PROCEDURE FOR TURNING ON.
END OF OPERATION	<p><i>Pen No.</i> <i>Pen function</i></p> <p>1. LOX Tank Vent Valve Command. 2. ALC Tank Vent Valve Command. 3. ALC Tank Pressurization. 4. LOX Tank Pressurization. 5. Igniter ALC Valve. 6. Main LOX Valve. 7. Main ALC Valve. 8. H₂O₂ Valve. 9. H₂O₂ Pressurization. 10. Preparation Complete. 11. Power Transfer. 12. Drop Tank in Place. 13. Cut Off. 14. Spare. 15. Voltages OK. 16. Plugs OK. 17. Simulated Flight Test. 18. Prelaunch Position. 19. Remote Command. 20. Test Fire.</p>
END OF TABLE II	END OF TABLE II

Table III

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
HORIZONTAL POWER CHECK	HORIZONTAL POWER CHECK	HORIZONTAL POWER CHECK	HORIZONTAL POWER CHECK	HORIZONTAL POWER CHECK	HORIZONTAL POWER CHECK	HORIZONTAL POWER CHECK	HORIZONTAL POWER CHECK
1. Have all stations check with the Test Station.							
2. Turn all switches to Normal or Off position.	2. Turn all switches to Normal or Off position.	2. Turn all switches to Normal or Off position.	2. Turn all switches to Normal or Off position.	2. With the exception of the sequence recorder, turn all switches to Normal or Off position.			2. Turn all switches to Normal or Off position (LN ₂ C).
	3. Turn Networks and Inverter BUS switches On, and command BUS switch to the missile position (EP).						
	4. Request Networks Voltage from Power Distribution Station. a. Plugs OK lamp On (PP). b. Detonators Safe lamp On (PP). c. Networks BUS meter indicates that voltage is present (EP).			4. Pen No. 16 picks up (SR).		4. Turn the Networks BUS output switch On (PDS). Networks BUS meter indicates 28-29 volts (PDS). OBSERVE CURRENT METER FOR INDICATION OF EXCESSIVE LOAD-ING. MAINTAIN 28-29 VOLTS ON THE NETWORKS BUS METER BY ADJUSTING THE VOLTAGE CONTROL RHEOSTAT.	4. The following lamps come On and remain On (LN ₂ C). a. Ground Power. b. Tank Low. c. Fill Valve Closed. d. Dehumidifier Valve Open. OBTAIN INDICATION d. BY CONNECTING P4983 TO J4983 ON DROP TANK. TURN DEHUMIDIFIER VALVE MANUAL CONTROL SWITCH ON THEN OFF TO GET INDICA-

Table III—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.
5. Turn Communications Power Selector switch to MG Set position (CC).							
	6. Request INVERTER BUS power from Power Distribution Station. INVERTER BUS meter indicates that voltage is present (EP).				6. Turn the INVERTER BUS Output switch On (PDS). Inverter BUS meter indicates 28-29 volts (PDS). OBSERVE CURRENT METER FOR INDICATION OF EXCESSIVE LOAD-ING. MAINTAIN 28-29 VOLTS ON THE INVERTER BUS METER BY ADJUSTING THE VOLTAGE CONTROL RHEOSTAT.		

Table III—Continued

Communication console	Propulsion and electrical console	Stabilizer and steering console	Test station		Firing area		
			Range console	Lateral and program console	Firing section	Servicing section	
					Electrical and pneumatic	Handling and fueling	
HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.
	7. Turn the Operation Selector switch to the Power On position (PP). a. ALC Temp meter deflects (PP). b. H ₂ O ₂ Temp meter deflects (PP). c. Drop Tank OK lamp On (PP). d. Low Pressure OK lamp On (PP). e. Guidance Voltage Failure lamp blinks (EP). f. Below Temp lamp On (EP).	7. a. Step Switch Zero lamp On (SP). b. Dive Program Zero lamp On (SP). c. Indicator H (Attitude Signals) lamp On (SC). d. Air pressure supply lamp On (SC). e. Warhead safe lamps On (CM).	7. a. Indicator H (Calibrate Repeat Power) lamp On (RP). b. Velocity Brake lamp On (RP). c. Displacement Brake lamp On (RP). d. 400 cps Power On lamp On (RP). e. Repeat lamp On (RC).	7. a. Indicator H (Calibrate Repeat Power) lamp On (LP). b. Velocity Detent meter reads in black zone (LP). c. Displacement Detent meter reads in black zone (LP). d. 400 cps Power On lamp On (LP). e. Calibration Time lamp On (LC). f. Reverse lamp On (PD). g. Pen No. 12 picks up (SR).	7. Power On lamp On (FB).		
	8. Turn Battery Heater Switch On (EP). Below Temp lamp On (EP). IF L A M P R E - MAINS ON FOR MORE THAN 40 MINUTES CHECK BATTERY HEATING CIRCUIT.		8. Depress 400 cps Power Off push-button (RP). a. 400 cps Power On lamp Off (RP). b. 400 cps Power Off lamp On (RP).	8. Depress 400 cps Power Off push-button (LP). a. 400 cps Power On lamp Off (LP). b. 400 cps Power Off lamp On (LP).		8. Networks ammeter will indicate an additional 40-80 amp load when battery heaters are operating (PDS).	

Table III—Continued

Communication console	Test station					Firing area		
	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section		
						Electrical and pneumatic	Handling and fueling	
HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	
9. Turn Inverter Power switch On (IC). Inverter phase lamps On (IC).	9. Command BUS meter indicates that command voltage is present (EP).				9. Command BUS meter indicates 60 volts (PDS). IF COMMAND BUS METER DOES NOT INDICATE 60 VOLTS HAVE THE CONTROL VOLTAGE SUPPLY ADJUSTED UNTIL COMMAND BUS METER INDICATES 60 VOLTS. MONITOR AND RE-ADJUST AS REQUIRED.			
10. Rotate AC Voltmeter Selector switch through AB, AC, and BC positions (IC). AC voltmeter reads 115 ± 2 volts in each position (IC).								
	11. Depress Guidance Voltage Failure Reset pushbutton (EP). Guidance Voltage Failure lamp Off (EP).							

Table III—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.
	12. Request 60 cps Voltage from Power Distribution Station.				12. Turn on Circuit breakers CB1, CB2, CB3, CB5, CB6, and CB7 (PDS).		
	13. Turn 60 cps Voltage switch On (EP). 60 cps Voltage lamp On (EP).				13. Power On lamps On (HB). a. Booster AC Power Lamp On (PDS). b. Top assembly AC Power Lamp On (PDS).		
					OMIT STEP 14 WHEN THE TERMPERATURE IS ABOVE +35° F. 14. Turn all heater control switches On except: (HB). a. H ₂ O ₂ Overflow tubing and valve. b. H ₂ O ₂ Fill and Drain Lines, Servo and Shutoff valves. c. H ₂ O ₂ Tank. d. Main LOX Valve. e. Heater Lamps On for each switch turned On.		

Table III—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.
	OMIT STEP 15 WHEN TEMPERATURE IS BELOW +35° F. 15. Turn 60 cps Voltage switch Off (EP). 60 cps Voltage lamp Off (EP).				15. Power On lamps Off (HB).	15. a. Booster AC Power lamp Off (PDS). b. Top assembly AC Power Lamp Off (PDS).	
16. Turn Power switch ON (PG). a. Power lamp On (PG).		16. Turn Guidance Cutout switch On (SP). Guidance Signal Off lamp On (SP).		16. Turn Program Device switch On (PD). Zero lamp On (PD).			
		17. Turn Control Computer switch On (SP).		17. Turn Program Device switch Off (PD). Zero lamp Off (PD).			
		18. Turn Rudder Drive switch On (SP). Vane Position meters read $0 \pm 2^\circ$ (SP).			18. Vane Position Meters read $0 \pm 2^\circ$ (RF).		
	19. Turn Operation Selector switch to Test position (PP).	19. Turn Rudder Drive switch Off (SP).					

Table III—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.
FOLLOW STEPS 20 THROUGH 27 TO POWER DOWN. DO NOT POWER DOWN IF TESTS ARE TO BE CONTINUED							
20. Turn Power switch Off (PG). Power lamp Off.	20. Insure that 60 cps Voltage switch is Off (EP). 60 cps Voltage lamp Off (EP).	20. Turn Control Computer switch Off (SP).			20. Insure all switches on Heater Control Box are Off (HB). Power On lamps Off (HB).		
21. Turn Inverter Power switch Off (IC). a. Inverter phase lamps Off (IC). b. AC Voltmeter deenergizes (IC).	21. Turn Battery Heater Switch Off (EP). Command BUS meter deenergizes (EP).	21. Turn Guidance Cutout switch Off (SP). Guidance Signal Off lamp Off (SP).			21. Command BUS meter deenergizes (PDS).		
	22. Turn Networks, Inverter and Command BUS switches Off (EP). Networks and Inverter BUS meters deenergize (EP).						

Table III—Continued

Communication console	Test station					Firing area		
	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section		
						Electrical and pneumatic	Handling and fueling	
HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.
	23. Turn Operation Selector switch Off (PP). a. ALC TEMP meter deenergizes (PP). b. H ₂ O ₂ TEMP meter deenergizes (PP). c. Drop Tank OK lamp Off (PP). d. Low Pressure OK lamp Off (PP).	23. a. Step Switch Zero lamp Off (SP). b. Dive Program Zero lamp Off (SP). c. Indicator H (Altitude Signals) lamp Off (SC). d. Air Pressure Supply lamp Off (SC). e. Warhead Safe lamps Off (CM)	23. a. Indicator H (Calibrate Repeat Power) lamp Off (RP). b. Velocity Brake lamp Off (RP). c. Displacement Brake lamp Off (RP). d. 400 cps Power lamp Off (RP). e. Repeat lamp Off (RC).	23. a. Indicator H (Calibrate Repeat Power) lamp Off (LP). b. Velocity Detent meter returns to Off (LP). c. Displacement Detent meter returns to Off (LP). d. Calibration Time lamp Off (LC). e. Reverse lamp Off (PD). f. Pen No. 12 returns to normal position (SR).	23. Power On lamp Off (FB).			
	24. Request Power Distribution Station to power down AC and DC Power.					24. Turn Off circuit breakers CB1, CB2, CB3, CB5, CB6, and CB7.		
						25. Turn the INVERTER BUS Output switch Off (PDS).		
	26. a. Plugs OK lamp Off (PP). b. Detonators Safe lamp Off (PP).	26. Caged lamp Off (SC).		26. Pen No. 16 returns to its normal position (SR).		26. Turn the Networks BUS Output switch Off (PDS).	26. All lamps Off (LN ₂ C).	

Table III—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.	HORIZONTAL POWER CHECK—Con.
END OF TEST END OF TABLE III	END OF TEST END OF TABLE III	END OF TEST END OF TABLE III	END OF TEST END OF TABLE III	END OF TEST END OF TABLE III	27. Turn Sequence Recorder Off.	END OF TEST END OF TABLE III	END OF TEST END OF TABLE III

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